

**SLOPE STABILIZATION AND PROTECTION AT BENTONG,  
PAHANG, MALAYSIA  
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Reinforced Soil Walls and Slope Reinforcement

**Problem**

The construction of a new paper factory for CHH Pacific Paper Sdn Bhd is located at Bentong Industrial Area. The construction of the factory will involve few main components such as waste water treatment, guard house, boiler house and access road.

Based on the approved construction drawing plan, the proposed road is very near to the building area (boiler house and guard house).

The proposed wall area was 115m length with approximately 6m height all the way.

**Solution**

L&W Concrete Works Sdn Bhd has been appointed by CHH Pacific Paper Sdn Bhd to carry out design, supply and construct vertical segmental wall. With technical assistance from Maccaferri, the contractor has completed one design proposal; the combination of segmental block and MacGrid to submit to the client. Two different types of MacGrid were proposed, namely WG4 & WG6 with strength of 40 kN/m and 60 kN/m respectively.

Once the proposal was accepted by the client, construction started in mid June 2009. The construction of the wall took almost 3 months to complete.

As a service oriented company, Maccaferri's staff has visited site to ensure the installation and construction of the MacGrid is correct as per design.

**Client:** CHH Pacific Paper Sdn Bhd

**Designer / Consultant:** CHH PACIFIC PAPER SDN BHD

**Contractor:** L&W CONCRETE WORKS SDN BHD

**Products used (Qty.)**

- MacGrid WG 800 M2

**Date of construction:** 06/2009 - 08/2009



During Construction



During Construction



after construction



After Completion